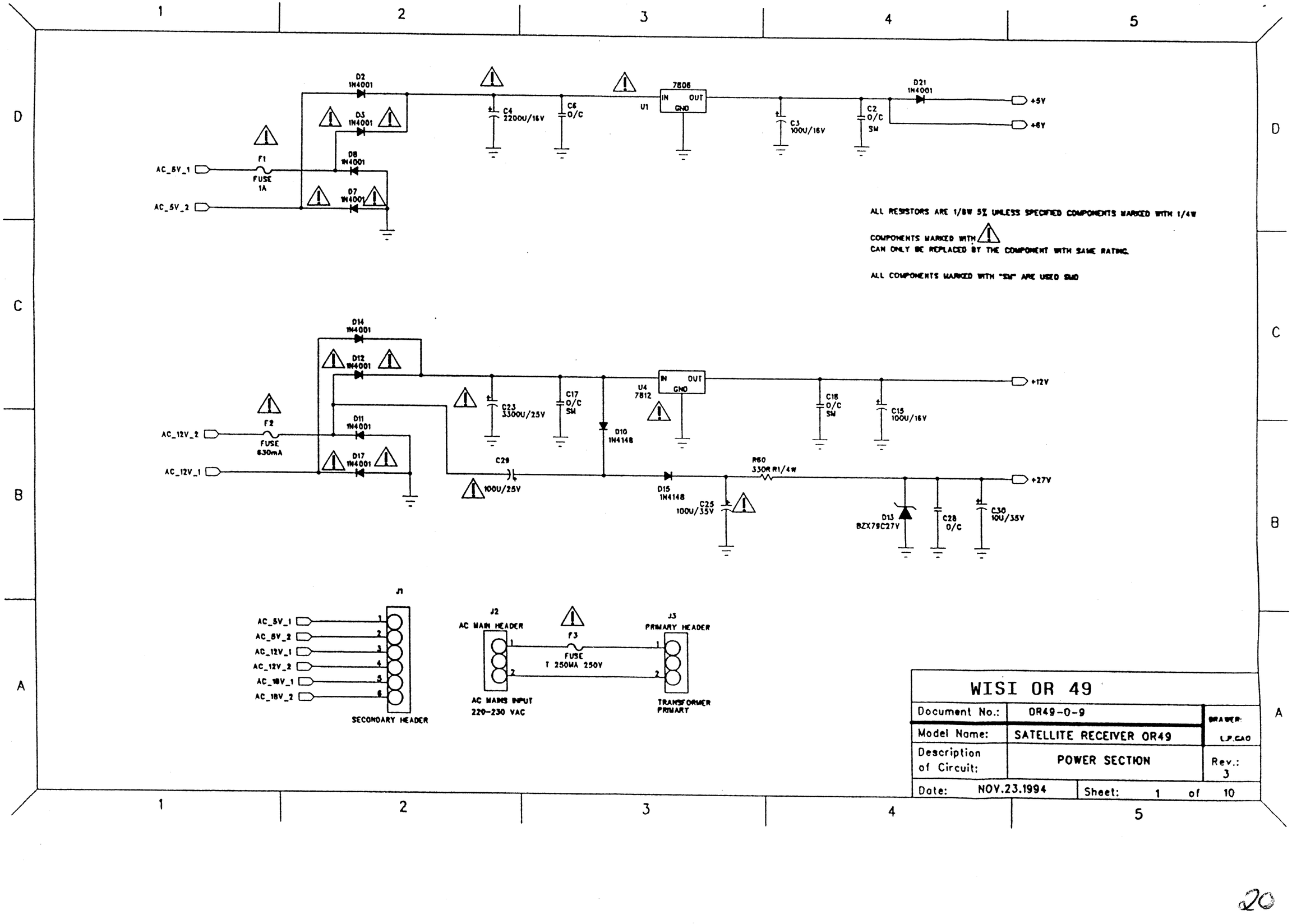
WISI

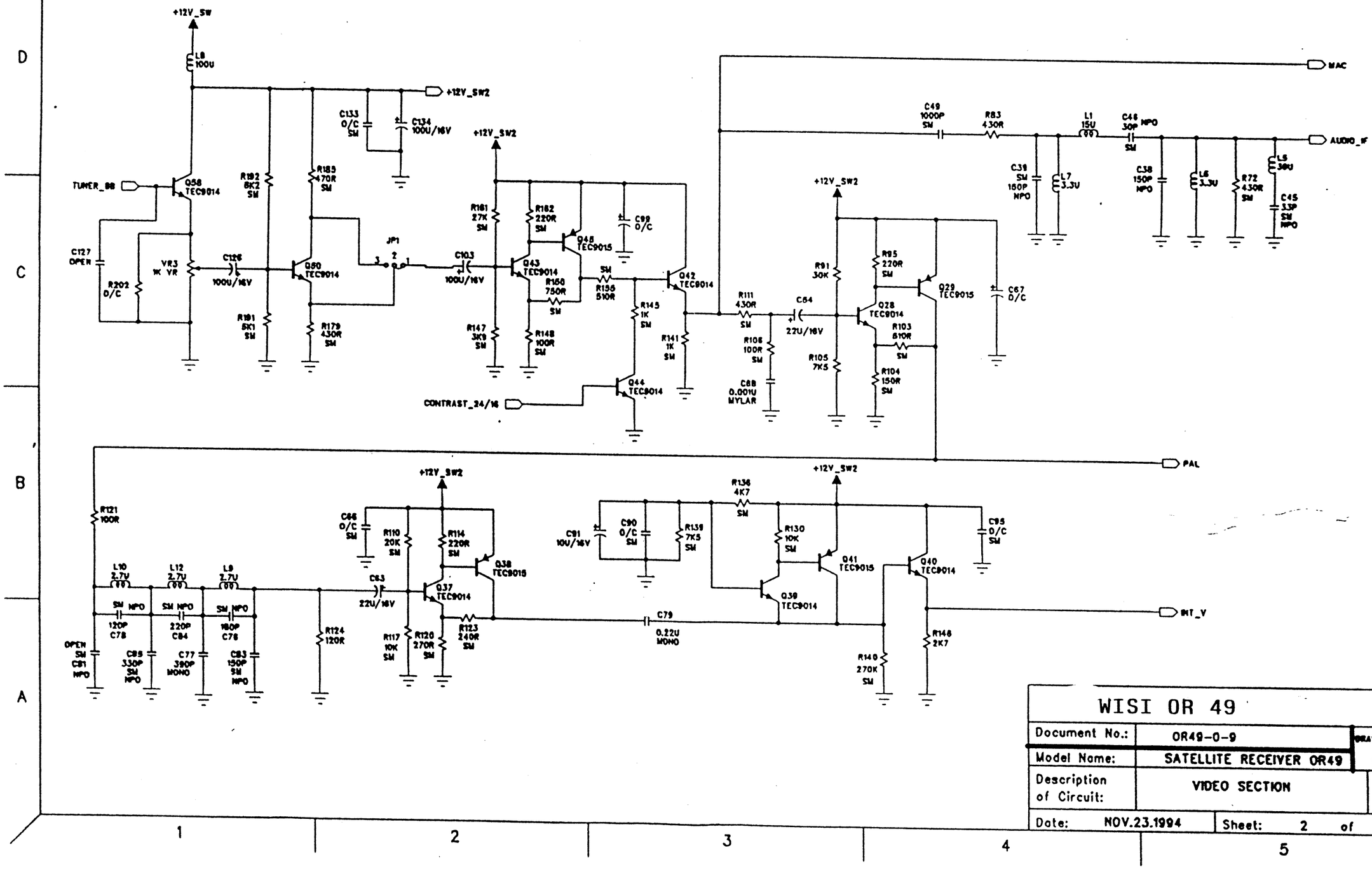
OR 49

WISI - 00020

OR491124.SCH1 - Thu Nov 24 17:35:18 1994

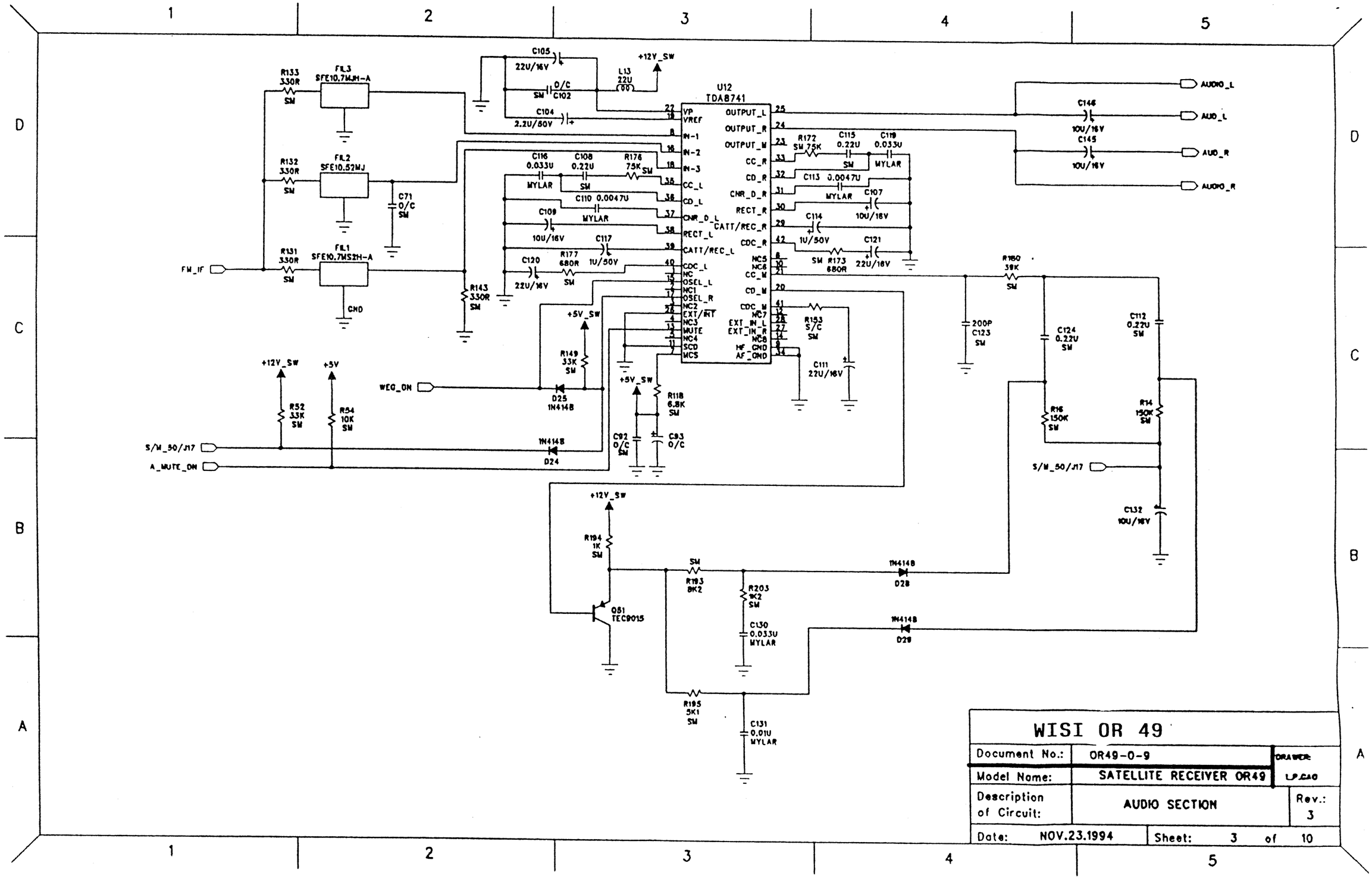


WISI OR 49		
Document No.:	OR49-0-9	DRAWER: LP.CAO
Model Name:	SATELLITE RECEIVER OR49	
Description of Circuit:	POWER SECTION	Rev.: 3
Date: NOV.23.1994	Sheet: 1 of 10	

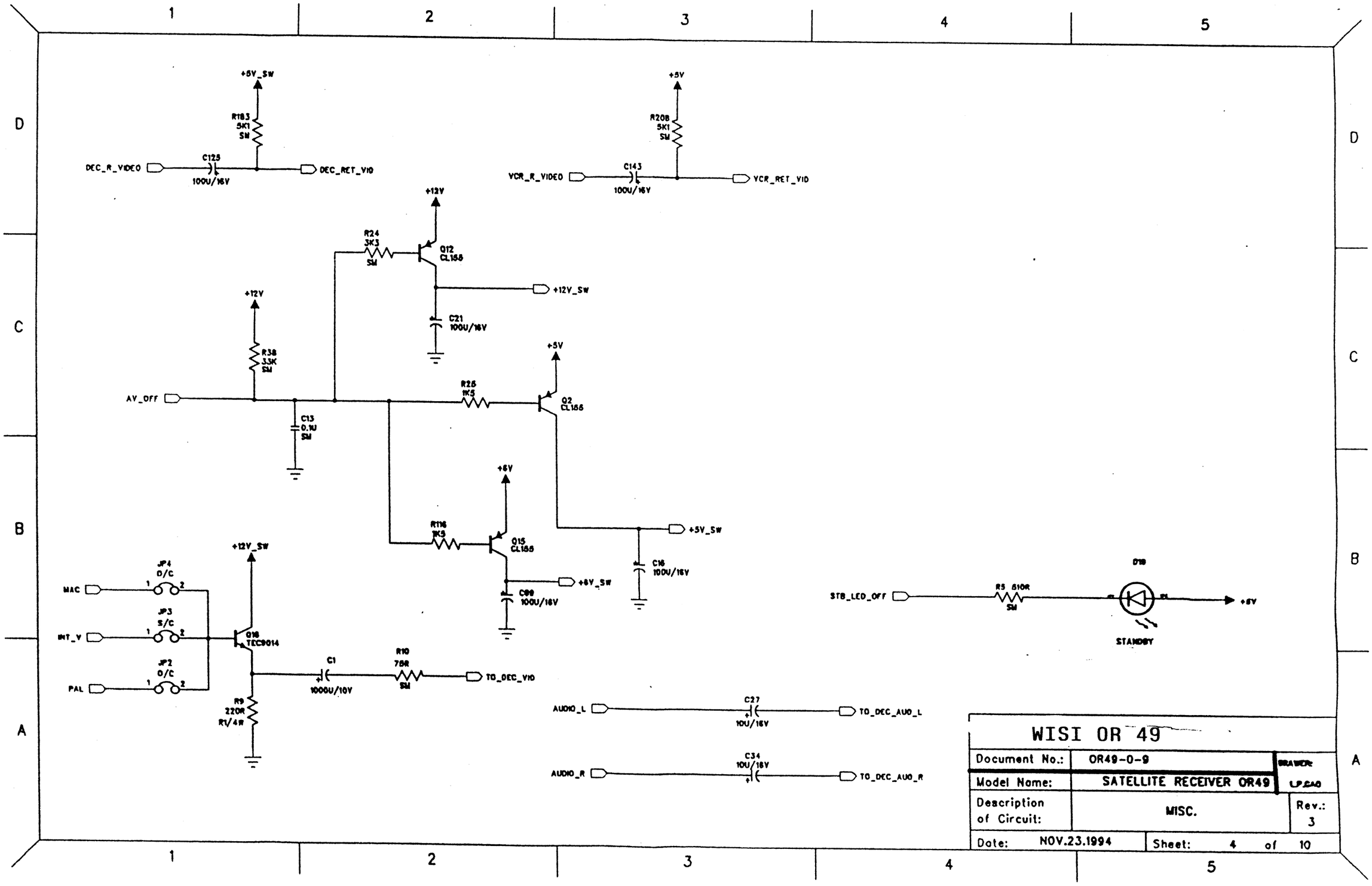


WISI OR 49			
Document No.:	OR49-0-9	DRAWER:	LP.LO
Model Name:	SATELLITE RECEIVER OR49		
Description of Circuit:	VIDEO SECTION	Rev.:	3
Date: NOV.23.1994	Sheet: 2 of 10		

OR491124.SCH3 - Thu Nov 24 17:37:50 1994



WISI OR 49			
Document No.:	OR49-0-9	DRAWER:	LP.LAO
Model Name:	SATELLITE RECEIVER OR49		
Description of Circuit:	AUDIO SECTION	Rev.:	3
Date: NOV.23.1994	Sheet: 3 of 10		



WISI OR 49			
Document No.:	OR49-0-9	DRAWER	LEAD
Model Name:	SATELLITE RECEIVER OR49		
Description of Circuit:	MISC.	Rev.:	3
Date: NOV.23.1994	Sheet: 4 of 10		

OR491124.SCH5 - Thu Nov 24 17:40:37 1994

DEC_RET_VID
DEC_R_AUD_L
C147 10U/16V
DEC_R_AUD_R
C148 10U/16V
INT_V
AUD_L
AUD_R
+12V_SW
R77 47K SM
INT/DEC_V
R184 47K SM
INT/DEC_A
U16 4053BM
R216 10K SM
R217 10K SM
+5V
VCR_RET_VID
R213 10K SM
VCR_R_AUD_L
C149 10U/16V
R214 10K SM
VCR_R_AUD_R
C150 10U/16V
+12V
R189 47K
SAT/VCR
SM R178 330R 1/4W
Q53 TEC9016
R175 75R SM
C122 470U/16V
TO_VCR_VID
C141 10U/16V
TO_VCR_AUD_L
C142 10U/16V
TO_VCR_AUD_R
U17 4053BM
TO_OSD_VIDEO
U14A
LM324
C152 100U/16V
R164 560R
TO_RCA_AUD_L
R165 560R SM
TO_TV_AUD_L
R156 2K4 SM
R144 2K4 SM
R151 1K SM
R152 22K SM
U14C
LM324
TO_MOD_AUD
R142 2K2 SM
SM R137 6K8
R138 22K SM
U14B
LM324
R166 560R SM
TO_TV_AUD_R
C151 100U/16V
R163 560R SM
TO_RCA_AUD_R
SM R134 2K4
R135 1K SM
R157 2K4 SM
C104 100U/16V
U14D
LM324
C89 10U/16V
U14E
LM324
C88 0/C SM

WISI OR 49		
Document No.:	OR49-0-9	DRAWER: LP.CAD
Model Name:	SATELLITE RECEIVER OR49	
Description of Circuit:	SELECTION	Rev.: 3
Date: NOV.23.1994	Sheet: 5 of 10	

OR491124.SCH6 - Thu Nov 24 17:42:03 1994

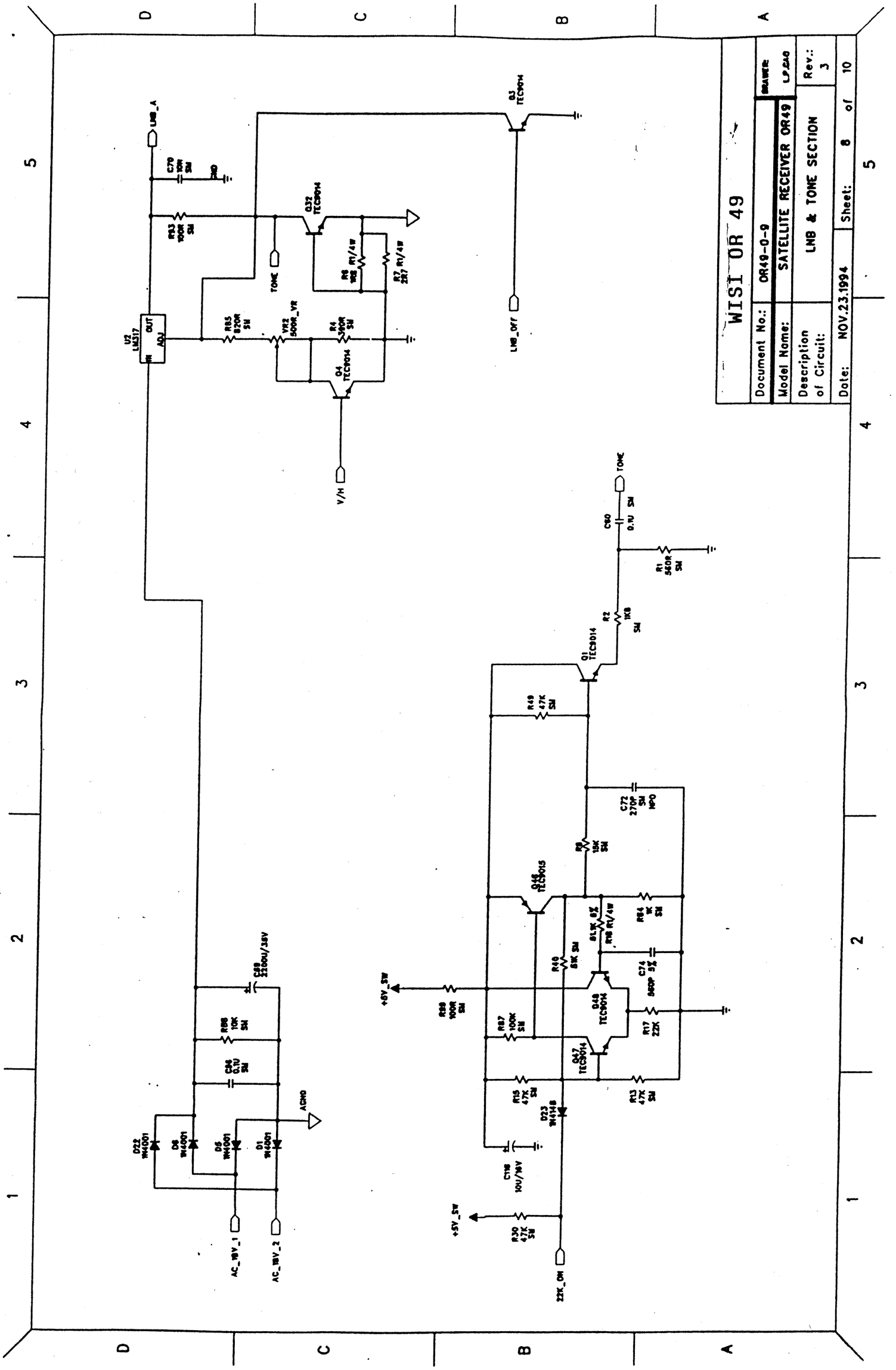
WISI OR 49	
Document No.:	OR49-0-9
Model Name:	SATELLITE RECEIVER OR49
Description of Circuit:	SYNC SECTION
Rev.:	3
Date:	NOV.23.1994
Sheet:	6 of 10
DRAWER:	L.P.GAO

OR491124.SCH7 - Thu Nov 24 17:43:29 1994

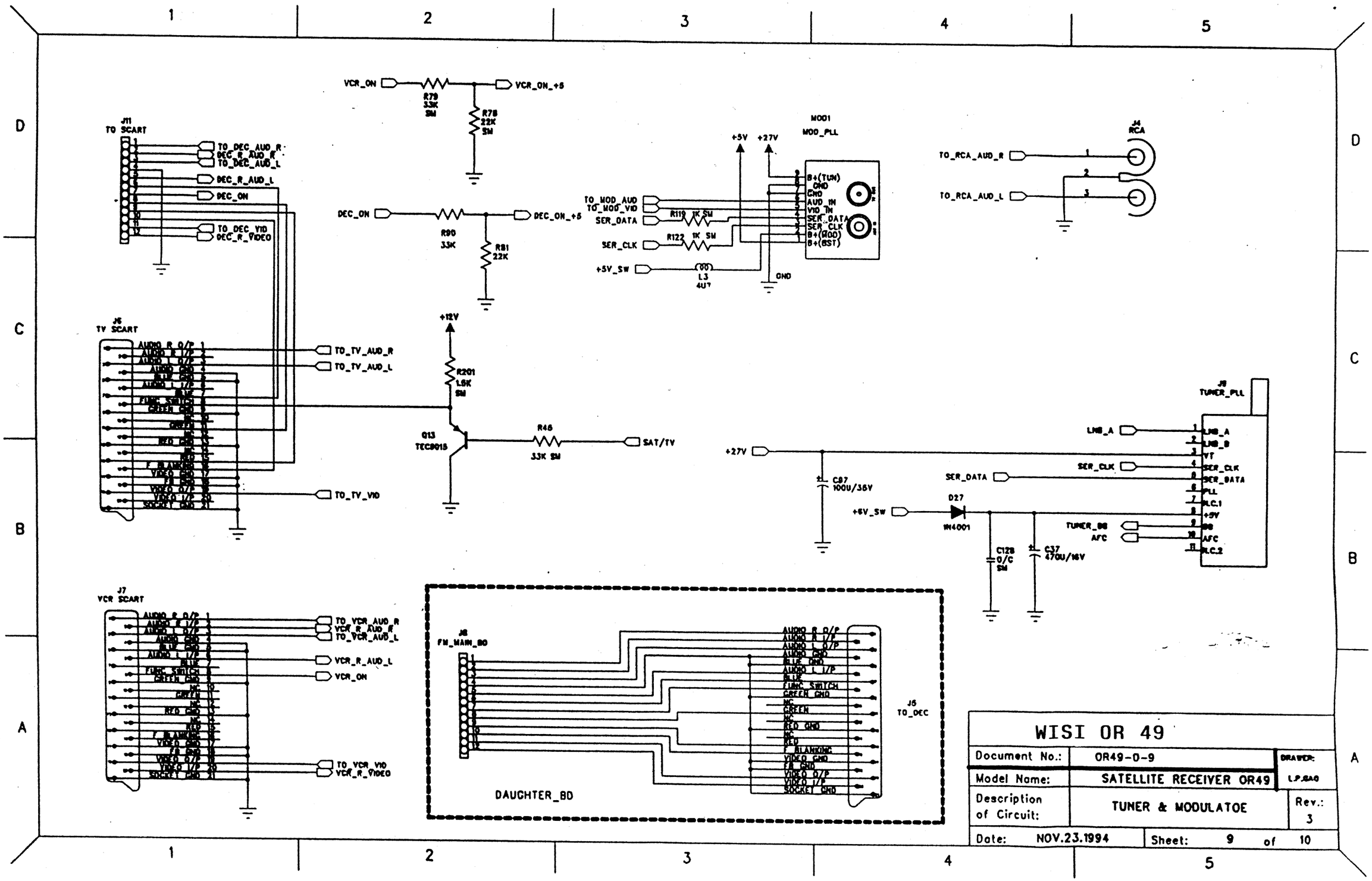
C157 82P SW NPO
XTL1 8MHz
O/C R36 SW
U6 MC145157-1
OSCIN OSCOUT FV VDD PDOUT VSS LD FIN
R V REF FR S/ROUT EN DATA CLK
C158 33P SW NPO
L17 4U7
C12 0.1U
C164 O/C
S/C R55
8MHZ
AUD_PLL
AUD_DATA
AUD_CLK
AUDIO_PSC_A
R50 470K SW
C156 0.1U MYLAR
R42 470K SW
R47 470K
U13A LM358
R48 470K SW
C155 0.1U MYLAR
R26 5K1 SW
C160 0.1U SW
+8V_SW
L16 22U
R83 150R SW
C163 100U/16V
C22 100P SW
R12 1K SW
L14 1.5U
C38 150P SW
C161 O/C SW
+12V_SW
Q5 TEC9014
FM_IF
R28 510R SW
+2.7V
U13C LM358
R37 2.2K SW
R125 620R SW
C24 10U/16V
U5 TA7358A
VCC
C140 0.01U SW
AUDIO_IF
Q8 TEC9015
C14 0.01U SW
RF AMP
MIXER
BUFFER AMP.
LOCAL OSC
BIAS
REGULATOR
GND
C129 1000P SW
C182 220P NPO
R19 47K
L15 1.8U
CR1 MV2109
R29 47K SW
C40 10P SW
+12V_SW
R34 330R SW
C20 0.01U SW
C51 15P SW NPO
R22 680R SW
C47 0.1U SW
U13B LM358
Q6 TEC9014
R20 680R SW
C136 150P SW
C137 0.01U
AUDIO_PSC_A

WISI OR 49		
Document No.:	OR49-0-9	DRAWER: LP.CAD
Model Name:	SATELLITE RECEIVER OR49	
Description of Circuit:	AUDIO MIXER & PLL SECTION	Rev.: 3
Date: NOV.23.1994	Sheet: 7 of 10	

OR491124.SCH8 - Thu Nov 24 17:44:49 1994



OR491124.SCH9 - Thu Nov 24 17:47:37 1994



WISI OR 49	
Document No.:	OR49-0-9
Model Name:	SATELLITE RECEIVER OR49
Description of Circuit:	TUNER & MODULATOE
Date: NOV.23.1994	Sheet: 9 of 10
DRAWER: L.P.SAO	Rev.: 3

OR491124.SCH10 - Thu Nov 24 17:49:01 1994

J10
TO MODULATOR
TO_MOD_VID
TO_MOD_AUD
GND
+8V
SER_DATA
SER_CLK
+27V

L4
4U7
(60)
+8V
C10
100U/10V
C11
0/C
SM
D-GND

L16
4U7
(60)
+5V
C6
0.1U
SM
R21
10K
SM
R33
10K
SM
U3
24C08
A0
A1
A2
VSS
VCC
WP
SCL
SDA
SER_CLK
SER_DATA

IR2
PSU80
REMOTE_DATA
+5V
RH
100R
C7
0.1U
SM

+8V
R58
10K
SM
SW1
B3F-3100
POWER_SW

+8V
R64
10K
SM
SW2
B3F-3100
CH_UP_SW

+5V
R66
10K
SM
SW3
B3F-3100
CH_DOWN_SW

WEG_ON
VCR_ON_+5
AFC
DEC_ON_+8
R38 10K SM
CONTRAST_24/16
AND_PLL
R35 3K3 SM
V/H
LNB_OFF
R44 10K SM
S/M_60/J17
V_MUTE_ON
A_MUTE_ON
SAT/VCR
INT/DEC_V
INT/DEC_A
ZEK_ON
STB_LED_OFF
AV_OFF

U9
TMP87CM36
VDD
42
VSS
21
P40/PWM0
P41/PWM1
P42/PWM2
P43/PWM3
P44/PWM4
P45/PWM5
P46/PWM6
P47/PWM7
P50/PWM8
P51/PWM9
P52/PULSE
P53
P54/CSN0
P55/CSN1
P56/CSN2
P57/CSN3
P60
P61
P62
P63
P38/SCK
P36/SDA/SO
P34/SCL/SI
P33/TC4
P32/INT4
P31/TC3
P30/INT3/RXIN
P29/INT5/STOP
RESET
XOUT
XIN
TEST
SDC2
OSC1
P71/XOUT
P70/XIN
P67/V/BL
P66/B
P65/G
P64/R
CH_DOWN_SW
SER_DATA
SER_CLK
CH_UP_SW
POWER_SW
SYNC_DET
REMOTE_DATA
SAT/TV
8MHZ
VERT_SYNC
HOR_SYNC
OSC_OUT
AUD_CLK
AUD_DATA
L2
32U
C81
15P
SM
C82
15P
SM

+5V
R107
1K
SM
Q11
TEC9015
R108
10K
SM
D18
1N4148
C26
4.7U/16V
4K7
R101
R102
1K
SM
Z1
BZX79C3V6
D-GND

WISI OR 49			
Document No.:	OR49-0-9		DRAWER: L.P.SAO
Model Name:	MiniSat		
Description of Circuit:	MCU SECTION		Rev.: 3
Date: NOV.23.1994		Sheet: 10 OF 10	